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*Onyiagha, G.; Krasniqi, X.; Clarkson, T.;*

 Global Telecommunications Conference, 1996. GLOBECOM '96. 'Communications: The Key to Global Prosperity', Volume: 1, 18-22 Nov. 1996  
Pages:201 - 205 vol.1

[\[Abstract\]](#)    [\[PDF Full-Text \(504 KB\)\]](#)    **IEEE CNF**
**17 Further training of human resources as a key factor for commercial success [packaging production]**
*Detert, M.; Oppermann, M.; Zerna, Th.;*

 Electronic Components and Technology Conference, 2002. Proceedings. 52nd 31 May 2002  
Pages:764 - 767

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**18 Proceedings Technology of Object-Oriented Languages and System TOOLS 38**

Technology of Object-Oriented Languages and Systems, 2001. TOOLS 38. Proceedings, 12-14 March 2001

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### 41 The Pan language-based editing system

80%



Robert A. Ballance , Susan L. Graham , Michael L. Van De Vanter

**ACM Transactions on Software Engineering and Methodology (TOSEM)** January 1992

Volume 1 Issue 1

Powerful editing systems for developing complex software documents are difficult to engineer. Besides requiring efficient incremental algorithms and complex data structures, such editors must accommodate flexible editing styles, provide a consistent, coherent, and powerful user interface, support individual variations and projectwide configurations, maintain a sharable database of information concerning the documents being edited, and integrate smoothly with the other tools in the environme ...

### 42 Transport layer abstraction in event channels for embedded systems

80%










Ravi Pratap M , Ron K. Cytron , David Sharp , Edward Pla


**ACM SIGPLAN Notices , Proceedings of the 2003 ACM SIGPLAN conference on Language, compiler, and tool for embedded systems** June 2003

Volume 38 Issue 7

As embedded systems increase in complexity and begin to participate in distributed systems, the need for middleware in building such systems becomes imperative. However, the use of middleware that fully implements such standards can impose a significant increase in footprint for an application, making it unsuitable for use in embedded systems. We consider the use of a standard CORBA event channel in a setting where distribution and inter-language support are unnecessary. We report our experience ...

80%

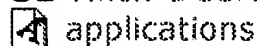
- 43** Reusable Ada packages for information systems development (RAPID):  
 an operational center of excellence for software reuse  
 T. Vogelsong  
**Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment** January 1989
- 44** Computing curricula 2001 80%  
 **Journal on Educational Resources in Computing (JERIC)** September 2001
- 45** An agent-based approach for building complex software systems 80%  
 Nicholas R. Jennings  
**Communications of the ACM** April 2001  
 Volume 44 Issue 4
- 46** CoG kits: a bridge between commodity distributed computing and high- 80%  
 performance grids  
 Gregor von Laszewski , Ian Foster , Jarek Gawor  
**Proceedings of the ACM 2000 conference on Java Grande** June 2000
- 47** Java paradigms for mobile agent facilities 80%  
 Neelakantan Sundaresan , Vinay Rajagopalan  
**Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)** January 1997
- 48** Performance modeling from software components 77%  
 Xiuping Wu , Murray Woodside  
**ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth international workshop on Software and performance** January 2004  
 Volume 29 Issue 1  
 When software products are assembled from pre-defined components, performance prediction should be based on the components also. This supports rapid model-building, using previously calibrated sub-models or "performance components", in sync with the construction of the product. The specification of a performance component must be tied closely to the software component specification, but it also includes performance related parameters (describing workload characteristics and demands), and it abst ...
- 49** Web technologies and applications (WTA): Migration to web services 77%  
 oriented architecture: a case study  
 Jia Zhang , Jen-Yao Chung , Carl K. Chang  
**Proceedings of the 2004 ACM symposium on Applied computing** March 2004  
 The rapid emerging of web-services technology is dramatically changing the scenario of web application design and development. This paper presents a web-services oriented architecture. As a case study, the paper reports on an on-going project on the design and development of a pass-through authentication web-services for on-line electronic payment applications. This is a first step towards an electronic payment web-service.
- 50** Full papers: Reflection, self-awareness and self-healing in OpenORB 77%

-  Gordon S. Blair , Geoff Coulson , Lynne Blair , Hector Duran-Limon , Paul Grace , Rui Moreira , Nikos Parlavantzas

**Proceedings of the first workshop on Self-healing systems** November 2002

There is a growing interest in the area of self-healing systems. Self-healing does however impose considerable demands on system infrastructures---especially in terms of openness and support for reconfigurability. This paper proposes that the self-awareness inherent in reflective technologies lends itself well to the construction of self-healing systems. In particular, the paper examines the support provided by the Open ORB reflective middleware technology for the construction of this increasing ...

- 51** Vinci: a service-oriented architecture for rapid development of web applications 77%



Rakesh Agrawal , Roberto J. Bayardo , Daniel Gruhl , Spiros Papadimitriou

**Proceedings of the tenth international conference on World Wide Web** April 2001

- 52** Technical papers: software design: DADO: enhancing middleware to support crosscutting features in distributed, heterogeneous systems 77%



Eric Wohlstadter , Stoney Jackson , Premkumar Devanbu

**Proceedings of the 25th international conference on Software engineering** May 2003

Some "non-" or "extra-functional" features, such as reliability, security, and tracing, defy modularization mechanisms in programming languages. This makes such features hard to design, implement, and maintain. Implementing such features within a single platform, using a single language, is hard enough. With distributed, heterogeneous (DH) systems, these features induce complex implementations which cross-cut different languages, OSs, and hardware platforms, while still needing to share data and ...

- 53** Technical papers: formal methods I: Cadena: an integrated development, analysis, and verification environment for component-based systems 77%



John Hatcliff , Xinghua Deng , Matthew B. Dwyer , Georg Jung , Venkatesh Prasad Ranganath

**Proceedings of the 25th international conference on Software engineering** May 2003

The use of component models such as Enterprise Java Beans and the CORBA Component Model (CCM) in application development is expanding rapidly. Even in real-time safety/mission-critical domains, component-based development is beginning to take hold as a mechanism for incorporating non-functional aspects such as real-time, quality-of-service, and distribution. To form an effective basis for development of such systems, we believe that support for reasoning about correctness properties of component ...

- 54** An open architecture for next-generation telecommunication services 77%



Gregory W. Bond , Eric Cheung , K. Hal Purdy , Pamela Zave , J. Christopher Ramming

**ACM Transactions on Internet Technology (TOIT)** February 2004

Volume 4 Issue 1

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many

deficiencie ...

- 55** Optimisation of mobile broadband multi-service systems based in economics aspects 77%



Fernando J. Velez , Luis M. Correia

**Wireless Networks** September 2003

Volume 9 Issue 5

Multi-service traffic engineering has a strong impact in Mobile Broadband Systems (MBS) revenues, allowing one to obtain merit functions for optimisation purposes, a key aspect in cellular planning. A net cost model is presented for the design trade-offs between re-use pattern,  $K$ , coverage distance,  $R$ , and spectral efficiency,  $Se_f(R)$ . It allows for the determination of the revenue per basic channel,  $R384$ , that achieves a given value for the an ...

- 56** POESIA: An ontological workflow approach for composing Web services in agriculture 77%



Renato Fileto , Ling Liu , Calton Pu , Eduardo Delgado Assad , Claudia Bauzer Medeiros

**The VLDB Journal — The International Journal on Very Large Data Bases**

November 2003

Volume 12 Issue 4

This paper describes the POESIA approach to systematic composition of Web services. This pragmatic approach is strongly centered in the use of domain-specific multidimensional ontologies. Inspired by applications needs and founded on ontologies, workflows, and activity models, POESIA provides well-defined operations (aggregation, specialization, and instantiation) to support the composition of Web services. POESIA complements current proposals for Web services definition and composition by provi ...

- 57** Distributed multimedia applications and quality of service: a survey 77%



Andreas Vogel , Brigitte Kerhervé , Gregor v. Bochmann , Jan Gecsei

**Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research** October 1994

Quality of service (QoS) is becoming an issue of increasing importance in distributed multimedia systems. This article presents an overview of the QoS issues involved in the design of such systems. QoS-related parameters can be identified in all system components. We will discuss QoS parameters found in communication protocols, operating systems, multimedia databases, file servers, as well as those directly concerned with the human user. The management of QoS parameters can be seen as an overall ...

- 58** Fast detection of communication patterns in distributed executions 77%



Thomas Kunz , Michiel F. H. Seuren

**Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research** November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

- 59** Computer support for cooperative design (invited paper) 77%



Susanne Bodker , Pelle Ehn , Joergen Knudsen , Morten Kyng , Kim Madsen

**Proceedings of the 1988 ACM conference on Computer-supported cooperative work** January 1988

Computer support for design as cooperative work is the subject of our discussion in the context of our research program on Computer Support in Cooperative Design and Communication. We outline our theoretical perspective on design as cooperative work, and we exemplify our approach with reflections from a project on computer support for envisionment in design — the APLEX and its use. We see envisionment facilities as support for both experiments with and communication about the future u ...

**60 Session 3: mobility: Egocentric context-aware programming in ad hoc** 77%



mobile environments

Christine Julien , Gruia Catalin Roman

**ACM SIGSOFT Software Engineering Notes** November 2002

Volume 27 Issue 6

Some of the most dynamic systems being built today consist of physically mobile hosts and logically mobile agents. Such systems exhibit frequent configuration changes and a great deal of resource variability. Applications executing under these circumstances need to react continuously and rapidly to changes in operating conditions and must adapt their behavior accordingly. The development of such applications demands a reexamination of the notion of context and the mechanisms used to manage the a ...

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**21** Full papers: Reflection, self-awareness and self-healing in OpenORB 77%



Gordon S. Blair , Geoff Coulson , Lynne Blair , Hector Duran-Limon , Paul Grace , Rui Moreira , Nikos Parlavantzas

**Proceedings of the first workshop on Self-healing systems** November 2002

There is a growing interest in the area of self-healing systems. Self-healing does however impose considerable demands on system infrastructures---especially in terms of openness and support for reconfigurability. This paper proposes that the self-awareness inherent in reflective technologies lends itself well to the construction of self-healing systems. In particular, the paper examines the support provided by the Open ORB reflective middleware technology for the construction of this increasing ...

**22** Full papers: Model-based adaptation for self-healing systems 77%



David Garlan , Bradley Schmerl

**Proceedings of the first workshop on Self-healing systems** November 2002

Traditional mechanisms that allow a system to detect and recover from errors are typically wired into applications at the level of code where they are hard to change, reuse, or analyze. An alternative approach is to use *externalized adaptation*: one or more models of a system are maintained at run time and external to the application as a basis for identifying problems and resolving them. In this paper we provide an overview of recent research in which we use architectural models as the ba ...

**23** Developing and integrating enterprise components and services: Web 77%



services: beyond component-based computing

Michael Stal

**Communications of the ACM** October 2002

Volume 45 Issue 10

Seeking a better solution to the application integration problem.

- 24** Component-based software engineering: On the role of middleware in architecture-based software development 77%



Nenad Medvidovic

**Proceedings of the 14th international conference on Software engineering and knowledge engineering** July 2002

Software architectures promote development focused on modular functional building blocks (components), their interconnections (configurations), and their interactions (connectors). Since architecture-level components often contain complex functionality, it is reasonable to expect that their interactions will be complex as well. Middleware technologies such as CORBA, COM, and RMI, provide a set of predefined services for enabling component composition and interaction. However, the potential role ...

- 25** Industrial sessions: middle-tier caching: Middle-tier database caching for e-business 77%



Qiong Luo , Sailesh Krishnamurthy , C. Mohan , Hamid Pirahesh , Honguk Woo , Bruce G. Lindsay , Jeffrey F. Naughton

**Proceedings of the 2002 ACM SIGMOD international conference on Management of data** June 2002

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache w/ ...

- 26** The state of the art in locally distributed Web-server systems 77%



Valeria Cardellini , Emiliano Casalicchio , Michele Colajanni , Philip S. Yu

**ACM Computing Surveys (CSUR)** June 2002

Volume 34 Issue 2

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

- 27** Session 2 (short papers): system and practical issues: A framework for flexible evolution in distributed heterogeneous systems 77%



Eric Wohlstadter , Brian Toone , Prem Devanbu

**Proceedings of the international workshop on Principles of software evolution** May 2002

Distributed, heterogeneous systems are becoming very common, as globalized organizations integrate applications running on different platforms, possibly written in different languages. Certain requirements for such features as security, QoS, and flexible administration are specially critical to distributed heterogeneous systems. Unfortunately, such requirements are often formulated late, since they depend upon a particular installation, and/or change rapidly with business and political climate. ...

- 28** State-of-the-art presentations: Distributed component technologies and their software engineering implications 82%






Wolfgang Emmerich

**Proceedings of the 24th international conference on Software engineering** May 2002

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...

**29** Research centers: Research in multi-organizational processes and 77%


 semantic information brokering at the LSDIS lab

Amit Sheth , John Miller , Krys Kochut , Budak Arpinar

**ACM SIGMOD Record** December 2001

Volume 30 Issue 4


**30** The XCAT science portal 77%

 Sriram Krishnan , Randall Bramley , Dennis Gannon , Madhusudhan Govindaraju , Rahul Indurkar , Aleksander Slominski , Benjamin Temko , Jay Alameda , Richard Alkire , Timothy Drews , Eric Webb

**Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)** November 2001

The design and prototype implementation of the XCAT Grid Science Portal is described in this paper. The portal lets grid application programmers easily script complex distributed computations and package these applications with simple interfaces for others to use. Each application is packaged as a "notebook" which consists of web pages and editable parameterized scripts. The portal is a workstation-based specialized "personal" web server, capable of executing the application scripts and launchin ...

**31** SEDA: an architecture for well-conditioned, scalable internet services 77%


 Matt Welsh , David Culler , Eric Brewer

**ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles** October 2001

Volume 35 Issue 5

We propose a new design for highly concurrent Internet services, which we call the *staged event-driven architecture* (SEDA). SEDA is intended to support massive concurrency demands and simplify the construction of well-conditioned services. In SEDA, applications consist of a network of event-driven *stages* connected by explicit *queues*. This architecture allows services to be well-conditioned to load, preventing resources from being overcommitted when demand exceeds service cap ...

**32** Portable resource control in Java 77%

 Walter Binder , Jane G. Hulaas , Alex Villazón

**ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications** October 2001

Volume 36 Issue 11

Preventing abusive resource consumption is indispensable for all kinds of systems that execute untrusted mobile coee, such as mobile object sytems, extensible web servers, and web browsers. To implement the required defense mechanisms, some support for resource control must be available: accounting and limiting the usage of physical

resources like CPU and memory, and of logical resources like threads. Java is the predominant implementation language for the kind of systems envisaged here, even th ...

### 33 A service framework for carrier grade multimedia services using 80%

#### PARPLAY APIs over a SIP system

Rudolf Pailer , Johannes Stadler

**Proceedings of the first workshop on Wireless mobile internet** July 2001

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added s ...

### 34 TIGRA — an architectural style for enterprise application integration 77%

#### Wolfgang Emmerich , Ernst Ellmer , Henry Fieglein

**Proceedings of the 23rd international conference on Software engineering** July 2001

We report on experience that we made in the Trading room InteGRation Architecture project (TIGRA) at a large German bank. TIGRA developed a distributed system architecture for integrating different financial front-office trading systems with middle- and back-office applications. We generalize the experience by proposing an architectural style that can be re-used for similar enterprise application integration tasks. The TIGRA style is based on a separation of data representation using domain-s ...

### 35 Enabling dynamic content caching for database-driven web sites 77%

#### K. Selçuk Candan , Wen-Syan Li , Qiong Luo , Wang-Pin Hsiung , Divyakant Agrawal

**ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data** May 2001

Volume 30 Issue 2

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*

### 36 Vinci: a service-oriented architecture for rapid development of web 80%

#### applications

Rakesh Agrawal , Roberto J. Bayardo , Daniel Gruhl , Spiros Papadimitriou

**Proceedings of the tenth international conference on World Wide Web** April 2001

### 37 Personalizing E-commerce applications with on-line heuristic decision 77%

#### making


Vinod Anupam , Richard Hull , Bharat Kumar

**Proceedings of the tenth international conference on World Wide Web** April 2001

**38** A framework for building non-functional software architectures 77%


 Nelson S. Rosa , George R. R. Justo , Paulo R. F. Cunha  
**Proceedings of the 2001 ACM symposium on Applied computing** March 2001

**39** Anatomy of a real E-commerce system 77%

 Anant Jhingran  
**ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data** May 2000  
Volume 29 Issue 2

Today's E-Commerce systems are a complex assembly of databases, web servers, home grown glue code, and networking services for security and scalability. The trend is towards larger pieces of these coming together in bundled offerings from leading software vendors, and the networking/hardware being offered through service delivery companies. In this paper we examine the bundle by looking in detail at IBM's WebSphere, Commerce Edition, and its deployment at a major customer site.



**40** The design and performance of a pluggable protocols framework for 77%

 real-time distributed object computing middleware  
Carlos O'Ryan , Fred Kuhns , Douglas C. Schmidt , Ossama Othman , Jeff Parsons  
**IFIP/ACM International Conference on Distributed systems platforms** April 2000

*To be an effective platform for performance-sensitive real-time and embedded applications, off-the-shelf CORBA middleware must preserve the communication-layer quality of service (QoS) properties of applications end-to-end. However, the standard CORBA GIOP/HOP interoperability protocols are not well suited for applications that cannot tolerate the message footprint size, latency, and jitter associated with general-purpose messaging and transport protocols. It is essential, therefore, to de ...*

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